- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS, WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- THE CONTRACTOR SHALL READ AND FOLLOW ALL REFERENCED ICC-ES OR IAPMO-ES REPORTS FOR INSTALLATION OF ITEMS SHOWN. ALTERNATE METHODS OF CONSTRUCTION MAY BE SUBMITTED FOR REVIEW TO THE PROJECT COORDINATOR WITH APPLICABLE ICC-ES OR IAPMO-ES REPORTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS BEFORE STARTING WORK OR FABRICATION ON NEW (N) OR EXISTING (E) CONSTRUCTION. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SPECIFICATIONS, GENERAL NOTES, AND THE SITE CONDITIONS SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD AND SHALL BE RESOLVED IN WRITING BEFORE PROCEEDING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. ALL WORK SHALL BE PERFORMED IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
- ON PROJECTS WITH EXISTING STRUCTURES, ALL WORK SHALL BE DONE SO AS TO MINIMIZE DAMAGE TO THE EXISTING STRUCTURE AND FINISHES.
- ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL AGENCY HAVING JURISDICTION IN THE AREA OF THE WORK.
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR, AND DOES NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR JOB SITE CONDITIONS FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR, AND DOES NOT HAVE CONTROL OR CHARGE OF ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE CONSTRUCTION WORK. THE CONTRACTOR AGREES TO INDEMNIFY AND HOLD STRUCTURAL ENGINEER OF RECORD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS
- THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED AS PRESCRIBED BY THE GOVERNING BUILDING CODES AND IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES. NO SPECIAL PROVISIONS HAVE BEEN MADE FOR CARRYING CONCENTRATED LOADS FROM STORAGE AND HANDLING OF CONSTRUCTION MATERIALS OR FROM OPERATION OF CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE'S STABILITY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, JOB SITE SAFETY; ERECTION MEANS, METHODS AND SEQUENCES; TEMPORARY SHORING; FORMWORK AND BRACING; USE OF EQUIPMENT, AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO.37-02 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION.
- STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR BUILDING THE PROJECT, CONTROLLING THE PROGRESS, PROVIDING SAFE MORKING CONDITIONS, AND CORRECTING ANY DEVIATIONS FROM PROJECT REQUIREMENTS. SUCH OBSERVATIONS ARE NOT TO BE CONSTRUED AS INSPECTION OF THE WORK. RESPONSIBILITY FOR RESOLUTION OF ANY ITEMS NOTED DURING OBSERVATION AS NOT BEING IN CONFORMANCE WITH THE CONTRACT DOCUMENTS RESTS WITH THE CONTRACTOR, SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
- THE DETAILS ON THESE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, DETAILS OF A CHARACTER SIMILAR TO THOSE SHOWN SHALL BE USED, SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
- NOTES AND DETAILS ON STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- OPENINGS, POCKETS, ETC., SHALL NOT BE PLACED IN SLABS, PILASTERS, OR WALLS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS. FOR OPENINGS NOT SHOWN AND/OR DETAILED ON THE STRUCTURAL DRAWINGS AND WHICH PENETRATE STRUCTURAL ELEMENTS, OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.
- IT IS THE INTENTION OF THESE STRUCTURAL DRAWINGS TO PROVIDE FOR THE FOLLOWING CONTINUITIES:

A. ALL ROOF AND FLOOR STRUTS SHALL BE CONTINUOUSLY CONNECTED FOR THE LENGTH OF THE ROOF OR FLOOR SYSTEM.

B. ALL WALL BRACING AND/OR SHEAR PANELS SHALL BE CONNECTED TO THE ROOF AND/OR FLOOR STRUTS.

IF THE DETAILS WHICH REFLECT THESE CONTINUITIES ARE NOT EVIDENT ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR CLARIFICATION.

FRAME OPENINGS AND SUPPORT MISCELLANEOUS EQUIPMENT AS DETAILED ON THE CONTRACT DRAWINGS. WHERE NO DETAILS ARE PROVIDED, OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.

ALL EQUIPMENT AND MACHINERY SHALL BE PLUMB AND LEVEL UNLESS NOTED OTHERWISE.

ALL EXTERIOR GLAZING AND FRAMES SHALL BE DESIGNED TO RESIST THE WIND LOADS PRESENTED IN THE "BASIS OF DESIGN" SPECIFICATION.

18. LATERALLY BRACE ALL SUSPENDED EQUIPMENT AND CEILINGS IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE.

IT IS THE INTENT OF THE STRUCTURAL DRAWINGS TO PROVIDE DETAILS OF CONSTRUCTION NECESSARY TO GUIDE THE GENERAL CONTRACTOR WITH STRUCTURAL ASPECTS OF THE PROJECT ONLY. ARCHITECTURAL FEATURES SHALL BE COORDINATED WITH THE OWNER.

### BASIS OF DESIGN

I. DESIGN LOADS ROOF LIVE LOAD--\_9 PSF ROOF DEAD LOAD--ROOF LIVE LOAD MAY BE REDUCED PER CBC 1607.12

## SUBMITTALS/SPECIAL CONDITIONS

- PRIOR TO REQUESTING A FOUNDATION INSPECTION (AT LEAST 48 HOURS) THE CONTRACTOR IS TO CONTACT THE GEOTECHNICAL ENGINEER, WHO IS TO ADVISE THE BUILDING OFFICIAL IN WRITING THAT: THE BUILDING FOUNDATION FOOTING EXCAVATION DEPTH, BACKFILL MATERIALS AND DRAINAGE SUBSTANTIALLY CONFORMS WITH THE SOILS REPORT RECOMMENDATIONS AND APPROVED CONTRACT DRAWINGS. A COPY OF THE REPORT SHALL BE GIVEN TO THE STRUCTURAL ENGINEER OF RECORD.
- STEEL FABRICATORS WHO PERFORM WORK UNDER A CERTIFICATION PROGRAM (SUCH AS AISC) ARE TO SUBMIT COPIES OF THEIR APPROVAL. CBC SEC. 1704.2.5.
- 3. SPECIAL INSPECTION REPORTS ARE TO BE SUBMITTED DIRECTLY TO THE ENFORCEMENT AGENCY PER CBC SEC. 1704.2.4 (WITH COPIES TO STRUCTURAL ENGINEER OF RECORD, GENERAL CONTRACTOR AND
- 4. SPECIAL INSPECTORS BACKGROUND AND QUALIFICATIONS SHALL BE FORWARDED TO THE BUILDING DEPARTMENT AT LEAST 3 DAYS BEFORE ANY INSPECTIONS ARE PERFORMED.
- 5. THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR DELIVERY.

A. STRUCTURAL STEEL B. METAL DECK

C. MISCELLANEOUS STEEL D. CONTRACTORS STATEMENT OF RESPONSIBILITY

6. PRODUCT SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES , IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (I) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

### CONTRACTOR RESPONSIBILITY

CONTRACTOR RESPONSIBILITY - CBC 1704.4: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS (SECTION 1704.3) SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

### STRUCTURAL OBSERVATION PROGRAM

- STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE STRUCTURAL OBSERVATION PER CBC 1704.5. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER OF RECORD 48 HOURS PRIOR TO COMPLETION OF THE FOLLOWING TO ARRANGE FOR PERIODIC OBSERVATION:
  - I.I. ROOF DECK WELDING PRIOR TO PLACEMENT OF ROOFING.
- 2. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED. THE STRUCTURAL OBSERVER SHALL MAKE ADDITIONAL SITE VISITS AS NECESSARY TO VERIFY THAT ALL REPORTED DEFICIENCIES HAVE BEEN SATISFACTORILY CORRECTED.

## CONCRETE EXPANSION BOLT NOTES

- I. EXPANSION BOLT ASSEMBLIES SHALL BE THE FOLLOWING;
  - I.I. HILTI KWIK BOLT TZ ASSEMBLY ICC REPORT NO. ESR-1917, DATED MAY I, 2013 AS MANUFACTURED BY HILTI, INC., 5400 SOUTH 122nd EAST AVENUE, TULSA, OKLAHOMA 74146.
    - I.I.I. MINIMUM EMBEDMENT DEPTHS SHALL BE PER CONTRACT DRAWING PLANS AND DETAILS.
    - INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. HOLE SHALL BE DRY AND CLEANED WITH WIRE BRUSH AND PRESSURIZED AIR JUST PRIOR TO INSTALLATION.
- 2. ALL EXPANSION BOLTS SHALL BE INSPECTED BY AN APPROVED TESTING AND INSPECTION AGENCY AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ICC REPORT AND CBC SECTION 1913A.7 TO THE TEST VALUES STATED IN THE TABLE BELOW.
  - 2.I. THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, CALIBRATED SPRING -LOADING DEVICE, A TORQUE WRENCH CALIBRATED FOR USE WITH THE SPECIFIC ANCHOR, ETC.
  - 2.2. TEST FREQUENCY 2.2.I. SILL PLATE; IO PERCENT
  - 2.2.2. ALL OTHER STRUCTURAL APPLICATIONS; IOO PERCENT 2.2.3. NON STRUCTURAL APPLICATIONS (EQUIPMENT ANCHORAGE, ETC.) 50 PERCENT OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH
  - 2.2.4.-\*TF INDICATES A TEST FREQUENCY OF IO PERCENT PER 1913A.7.3. EXCEPTION #2
  - 2.3. TEST ACCEPTANCE 2.3.I. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST.
  - 2.3.2. TORQUE WRENCH METHOD: 2.3.2.I. ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF
  - 2.4. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED, WHICH ARE INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY

| TEST LOADS |               |                 |  |  |  |  |
|------------|---------------|-----------------|--|--|--|--|
| DIAMETER   | TENSION (LBS) | TORQUE (FT-LBS) |  |  |  |  |
| 3/8"       | -             | 25              |  |  |  |  |
| 1/2"       | -             | 40              |  |  |  |  |
| 5/8"       | -             | 60              |  |  |  |  |
| 3/4"       | _             | IIO             |  |  |  |  |

NOTE: FOR EXPANSION BOLT TENSION TEST LOADS SEE PLANS AND

- 3. WHEN INSTALLING EXPANSION BOLTS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EXPANSION BOLTS.
- 4. ANY CONNECTIONS SHOWN ON THE APPROVED CONTRACT DRAWINGS AS BEING EXPANSION ANCHORS SHALL BE INSTALLED WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE ICC REPORT. ANY ITEMS THA REQUIRE EXPANSION ANCHORS BUT ARE NOT SPECIFICALLY SHOWN AS SUCH ON THE APPROVED CONTRACT DRAWINGS MUST BE IN ACCORDANCE WITH THE ICC OR IAPMO REPORT PRIOR TO BEING INSTALLED.

## STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED PER AISC SPECIFICATIONS FOR BUILDINGS AND SHALL CONFORM TO THE FOLLOWING,
  - W SHAPES: ASTM A992 (Fy = 50 ksi) HSS SHAPES: ASTM A500, GRADE B (Fy = 46 ksi) PIPE SHAPES: ASTM A53, GRADE B (Fy = 35 ksi) ALL OTHER SHAPES: ASTM A36 (Fy = 36 ksi) PLATES AND BARS: ASTM A36 (Fy = 36 ksi)
- 2. WIDE FLANGE MEMBERS THAT HAVE FLANGE THICKNESS EXCEEDING 2 INCHES SHALL CONFORM TO ASTM A6 SUPPLEMENTARY REQUIREMENT 530, CHARPY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES - ALTERNATE CORE LOCATION. TEST SHALL MEET A MINIMUM AVERAGE VALUE OF 20 FT LB AT +70 DEG F. WIDE FLANGE MEMBERS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM THAT HAVE FLANGE THICKNESS EXCEEDING I 1/2 INCHES SHALL ALSO CONFORM.
- 3. PLATES THAT HAVE 2 INCH THICKNESS AND THICKER SHALL CONFORM TO ASTM A6 SUPPLEMENTARY REQUIREMENT S5 CHARPY V-NOTCH IMPACT TEST. TEST SHALL MEET A MINIMUM AVERAGE VALUE OF 20 FT LB AT +70 DEG F.
- 4. FOR ANCHOR ROD REQUIREMENTS SEE CONCRETE SPECIFICATIONS.
- 5. FOR NON-SHRINK GROUT REQUIREMENTS SEE CONCRETE SPECIFICATIONS
- 6. ALL UNFINISHED NUTS AND BOLTS (M.B.) SHALL BE ASTM A307 U.N.O. 7. ALL BOLT HOLES IN STEEL SHALL BE PUNCHED OR DRILLED. NO TORCHING OF

HOLES ALLOWED. HOLES SHALL BE STANDARD ROUND HOLES I/I6" LARGER

8. HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

THAN THE NOMINAL BOLT DIAMETER, U.N.O.

- 9. WELDING:
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING THE SHIELDED ARC PROCESS AND IN ACCORDANCE WITH AWS STANDARDS. JOINT DETAILS SHALL COMPLY WITH AWS REQUIREMENTS FOR JOINTS ACCEPTED WITHOUT QUALIFICATION TESTS.
- 9.2. ALL WELDS SHALL BE UNIFORM IN SIZE AND APPEARANCE, AND FREE OF PINHOLES, POROSITY, UNDERCUTTING OR OTHER DEFECTS. ALL BUTT WELDS SHALL BE FULL PENETRATION.
- 9.3. NO WELDING PERMITTED ON MEMBERS SUPPORTING LOADS.
- 9.4. WELD METAL SHALL HAVE A NOMINAL TENSILE STRENGTH OF 70,000 PSI
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.
- ALL STEEL SHALL BE THOROUGHLY CLEANED, REMOVING ALL LOOSE MILL SCALE, GREASE, DIRT AND FOREIGN MATTER BY SCRAPING OR SANDBLASTING.
- 12. ALL STEEL TO BE GREY PRIMER COLOR. DO NOT SHOP PAINT TO THE
- 12.1. SURFACES WHICH WILL BE ENCASED IN CONCRETE OR MORTAR. PAINT EMBEDDED STEEL WHICH IS PARTIALLY EXPOSED ON EXPOSED PORTIONS AND INITIAL TWO INCHES OF EMBEDDED PORTIONS ONLY.
- SURFACES WITHIN 2 INCHES OF JOINTS TO BE WELDED IN FIELD INCLUDING TOP FLANGES OF MEMBERS SUPPORTING STEEL DECKING WHICH ARE TO SURFACES WHICH WILL RECEIVE SPRAYED ON FIREPROOFING.
- TOP FLANGE OF MEMBERS WHICH WILL HAVE SHEAR CONNECTOR STUDS
- 13. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OF PRODUCE OBJECTIONABLE FUMES.
- 14. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.
- 15. FINAL PAINT AND COLOR FOR EXPOSED STEEL SHALL BE PER OWNER'S SPECIFICATION.
- IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS. AND ABRADED AREAS OF SHOP PAINT. APPLY PRIMER TO EXPOSED AREAS WITH SAME MATERIAL AS USED FOR SHOP PRIMER.

## STEEL DECK NOTES

- STEEL DECKING SHALL BE AS INDICATED ON PLANS. FABRICATION AND INSTALLATION SHALL CONFORM TO ICC-ES REPORT NO. ESR-2408 (REISSUED 08/01/II) FOR ASC PROFILES STEEL DECK OR IAPMO-ES REPORT NO. ER-0226 (REISSUED 04/II/I2) FOR EPIC METALS CORPORATION STEEL DECK OR IAPMO-ES REPORT NO. ER-0217 (ISSUED II/09/II) FOR VERCO DECKING, INC.
- 2. DECK PANELS SHALL SPAN OVER THREE SUPPORTS WHERE STRUCTURAL STEEL FRAMING PERMITS, FLOOR DECK SUPPORTING CONCRETE FILL MUST SPAN OVER THREE SUPPORTS FOR THE OMISSION OF SHORING. DECK PANELS SHALL INCLUDE ALL ACCESSORIES FOR THIS TYPE OF DECKING: SUCH AS CLOSURE, FLASHING, EDGE FORMS, ETC. TO COMPLETE THE INSTALLATION OF THE STEEL DECK. PANELS SHALL BE ALIGNED AND PLACED IN ACCORDANCE WITH THE MANUFACTURER'S ICC-ES OR IAPMO-ES REPORT AND THESE DRAWINGS.
- 3. OPENINGS IN THE STEEL DECKING SUPPORTING CONCRETE FILL CUTTING NO MORE THAN ONE FLUTE AND LESS THAN 6" IN DIAMETER NEED NO REINFORCING. FOR OPENINGS EXCEEDING THIS LIMITATION, SEE TYPICAL DETAILS FOR OPENING DETAILS.
- 4. FOR NELSON STUD ANCHOR REQUIREMENTS SEE STEEL SPECIFICATIONS.
- 5. WELDING SHALL CONFORM TO AWS DI.I AND DI.3. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL WELDING REQUIREMENTS.
- 6. ENDS OF STEEL DECKING PANELS SHALL BUTT OVER SUPPORTS (NO LAP). DECK SHALL BEAR 2" MINIMUM ON SUPPORTING FRAMEWORK.
- 7. THE STEEL DECKING SHALL BE CLEANED OF ALL DIRT, DEBRIS, OIL WATER AND ANY FOREIGN MATERIAL PRIOR TO APPLICATION OF CONCRETE
- 8. APPROVED SHOP DRAWINGS SHOWING LAYOUT AND FASTENING PATTERN MUST BE ON JOB SITE FOR INSPECTION PURPOSES.

## CONCRETE MIX

NON-SHRINK GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 555" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM CIIOT GRADE B WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

#### ABBREVIATIONS JST. JT. **JOINT** ANGLE CENTERLINE DIAMETER OR ROUND K.O. KNOCK OUT K.O.P. KNOCK OUT PANEL PARALLEL PERPENDICULAR POUND OR NUMBER POUND (POUNDS) CAMBER LINEAL FOOT LEFT HAND EXISTING LIVE LOAD LONG LEG HORIZ LONG LEG VERT ANCHOR BOLT LOCATION LAMINATED STRAND LUMBER ABOVE ADDL. **ADDITIONAL** LIGHT WEIGHT ADJACENT LAMINATED VENEER LUMBER ABOVE FINISH FLOOR ABOVE FINISH GRADE AGGREGATE MACHINE ALTERNATE MAINT MAINTENANCE ALUMINUM MAX. MAXIMUM APPROX. APPROXIMATE MACHINE BOLT ARCH. ARCHITECT(URAL) MBM METAL BUILDING MECH. MECHANICAL MEDIUM MEMBRANE BUILDING MEZZANINE BLOCKING MANUFACTURER MILLIMETER BOUNDARY NAILING MINIMIM BOTTOM OF DECK MISCELLANEOUS MPH MTL BOTTOM OF FOOTING MILES PER HOUR BRG. BTWN. BEARING BETWEEN NOT IN CONTRACT NUMBER NOM. NOMINAL NEAR SIDE CONSTRUCTION JOINT/ N.T.S. NOT TO SCALE CONTROL JOINT NORMAL WEIGHT CENTER LINE CLEAR/CLEARANCE ON CENTER CONCRETE MASONRY OUTSIDE DIAMETER/DIM CONCRETE OUTSIDE FACE OF WALL CONNECTION OPPOSITE HAND CONSTRUCTION OVAL HEAD MACH. SCREW O.H.W.S. OVAL HEAD WOOD SCREW CONTINUOUS CONTR. CONTRACTOR OPENING COORDINATION **OPPOSITE** COORD. COMPLETE PENETRATION ORIG. ORIGINAL CENTER TO CENTER OVER HEAD OPEN WEB STEEL JOIST CTRD. CENTERED CTSK COUNTERSUNK POWDER ACTUATED FASTENER CUBIC YARD PERPENDICULAR PLATE PLYWOOD PARTIAL PENETRATION DEMOLISH / DEMOLITION PSF POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH DOUGLAS FIR PARALLEL STRAND LUMBER DIAMETER DIAGONAL POST TENSION PRESSURE TREATED DIMENSION DEAD LOAD DOUGLAS FIR PARTITION PLYWOOD DWG.(S) DRAWING(S) DWL DOWEL RADIUS REINFORCING REMOVE REQUIRED REQD. EACH FACE RIGHT HAND EXPANSION JOINT R.H.W.S. ROUND HEAD WOOD SCREW ELEVATION R.O. ROUGH OPENING ELECTRIC(AL) FI FVATOR **EMBEDMENT** SEE ARCH. DRAWINGS EDGE NAILING SCHED. ENGINEER SCHEDULE STRUCTURAL COMPOSITE EQUIPMENT SELF DRILLING SCREW TCETERA EACH WAY SECT. SECTION SQUARE FEET/FOOT FXISTING **EXPANSION** SHEATHING **EXTERIOR** SIMILAR SHEET METAL SHEET METAL SCREW SLAB-ON-GRADE FOUNDATION FINISH FLOOR FINISH GRADE SPEC(S). SPECIFICATION(S) FLAT HEAD MACH. SCREW FLAT HEAD WOOD SCREW STAINLESS STEEL STANDARD STIFFENER FLOOR(ING) FACE OF CONCRETE STRUCTURAL FACE OF MASONRY SELF TAPPING SCREW FACE OF STUD SUSPENDED FACE OF WALL SYM. SYMMETRICAL F.S. FAR SIDE T&B TOP AND BOTTOM FOOT/FEET TONGUE AND GROOVE FOOTING TEMP. FUTURE TEMPORARY THREADED GAUGE/GAGE TEMPERED GALVANIZED TOP OF CONCRETE T.O.F. T.O.P. GENERAL CONTR. TOP OF FOOTING TOP OF PLATE GENERAL GALVANIZED IRON T.O.PLY. TOP OF PLYWOOD TOP OF STEEL T.O.S. TRTD. GI JI AM GLULAM BEAM TREATED TYPICAL TYP. GYPSUM WALL BOARD GYPSUM UNLESS NOTED OTHERWISE U.O.N. UNLESS OTHERWISE NOTED HOLLOW CORE ULTRASONIC TESTED HDR. HEADER HANGER HORIZONTAL VERT. VERTICAL HIGH STRENGTH BOLT HOLLOW STEEL SECTION WEST OR HEATING/VENTILATING / WIDTH/WIDE AIR CONDITIONING WIDE FLANGE

MITHOUT

YARD

W.S.

MMF

YD

MMM

WORKPOINT

WOOD SCREW

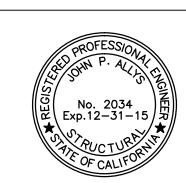
WELDED WIRE FABRIC

WELDED WIRE MESH

# STRUCTURAL NOTES

ARCHITECT/ENGINEERS:

TETER, LLP 7535 N. PALM AVE. 201 | FRESNO, CA 93711 | 559,437,0887 125 S. BRIDGE ST. 150 | VISALIA, CA 93291 | 559.625.5246 ARCHITECTS ENGINEERS CONNECTED



**Drawing Title** STRUCTURAL NOTES Approved: Project Director Location FRESNO, CA

Project Number RENOVATE 7TH FLOOR BUILDING 570-13-202 **Building Number Drawing Number** Checked 4-30-14 Dwg. 13 of 51

INSIDE DIAMETER/DIM

INSIDE FACE OF WALL

INFORMATION

INSPECTION

INSULATION

INTERIOR

INSUL.

Office of Construction and Facilities Managemen<sup>a</sup>

Department of Veterans Affairs

VA FORM 08-6231

SCHEMATIC DESIGN SUBMITTAL

DESIGN DEVELOPMENT SUBMITTAL (35%)

CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)

4-30-14

4-16-14

3-19-14

12-4-13

**CONSULTANTS:** 

2 4

| REQUIRED VERIFICATION   | _                  |                   | ECTION C<br>LE 1704.3   | _   | L CON           | STRUCTION          |
|---|--------------------|-------------------|---|---|-----------------|--------------------|
| VERIFICATION AND INSPECTION   | CONTINUOUS         | PERIODIC          | COMMENTS  | REFERENCES  | PERFORMED<br>BY | PERFORMED BY NOTES |
| I. MATERIAL VERIFICATION OF HIGH-STRENGTH BC  | L<br>LTS, NUTS AND | L<br>WASHERS      |   |   |                 |                    |
| A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS  | ,                  |                   |   | AISC 360<br>SECTION A3.3,<br>AND                      |                 |                    |
|   |                    | ×                 |   | APPLICABLE ASTM MATERIAL STANDARDS                    |                 |                    |
| B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED  |                    | ×                 |   |   |                 |                    |
| 2. INSPECTION OF HIGH-STRENGTH BOLTING  |                    |                   | 1   |   |                 |                    |
| A. SNUG-TIGHT JOINTS  |                    |                   |   | AISC 360  |                 |                    |
|   |                    | ×                 |   | SECTION M2.5<br>CBC 1704.3.3                          |                 |                    |
| B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION  |                    |                   |   |   |                 |                    |
| C. PRETENSIONED AND SLIP-CRITICAL JOINTS<br>USING TURN-OF-NUT WITHOUT MATCHMARKING OR<br>CALIBRATED WRENCH METHODS OF INSTALLATION  |                    |                   |   |   |                 |                    |
| 3. MATERIAL VERIFICATION OF STRUCTURAL STEE   | L AND COLD-F       | ORMED STE         | EL DECK   |   |                 |                    |
| A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360   |                    | ×                 |   | AISC 360<br>SECTION M5.5                              |                 |                    |
| B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS   |                    | ×                 |   | APPLICABLE<br>ASTM<br>MATERIAL<br>STANDARDS           |                 |                    |
| C. MANUFACTURER'S CERTIFIED TEST REPORTS  |                    | ×                 | MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS                           | STANDANDS   |                 |                    |
| 4. MATERIAL VERIFICATION OF WELD FILLER MATE  | L<br>ERIALS        |                   | ILST KEFOKTS  |   |                 |                    |
| A. IDENTIFICATION MARKINGS TO CONFORM TO  |                    |                   |   | AISC 360  |                 |                    |
| AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS  |                    | ×                 |   | SECTION A3.5,<br>AND<br>APPLICABLE<br>ANS A5          |                 |                    |
|   |                    |                   |   | DOCUMENTS   |                 |                    |
| B. MANUFACTURER'S CERIFICATE OF COMPLIANCE REQUIRED.  |                    | ×                 | MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE                             |   |                 |                    |
| 5. INSPECTION OF WELDING  | •                  | •                 | •   | •   | •               |                    |
| A. STRUCTURAL STEEL AND COLD-FORMED STEE  | L DECK             |                   |   |   |                 |                    |
| I) COMPLETE AND PARTIAL JOINT<br>PENETRATION GROOVE WELDS   | ×                  |                   | SPECIAL<br>INSPECTIONS IN<br>THIS SECTION<br>ARE WAIVED                       | AWS DI.I<br>CBC 1704.3.I                              |                 |                    |
| 2) MULTIPASS FILLET WELDS   | ×                  |                   | HHERE<br>FABRICATION IS   |   |                 |                    |
| 3) SINGLE-PASS FILLET WELDS > 5/16"   |                    |                   | PERFORMED ON<br>THE PREMISES OF   |   |                 |                    |
| 4) PLUG AND SLOT WELDS  |                    |                   | A FABRICATOR<br>REGISTERED AND  |   |                 |                    |
| 5) SINGLE-PASS FILLET WELDS <= 5/16"  |                    | ×                 | APPROVED IN ACCORDANCE  |   |                 |                    |
| 6) FLOOR AND ROOF DECK WELDS  |                    | ×                 | WITH CBC<br>SECTION 1704.2  | AWS DI.3  |                 |                    |
| B. REINFORCING STEEL  |                    |                   |   | CBC 1704.3.1  |                 |                    |
| I) VERIFICATION OF WELDABILITY OF<br>REINFORCING STEEL OTHER THAN ASTM A706   |                    |                   | SPECIAL<br>INSPECTIONS IN<br>THIS SECTION<br>ARE WAIVED                       | AMS DI.4 ACI<br>318: SECTION<br>3.5.2<br>CBC 1704.3.1 |                 |                    |
| 2) REINFORCING STEEL RESISTING FLEXURAL<br>AND AXIAL FORCES IN INTERMEDIATE AND<br>SPECIAL MOMENT FRAMES, AND BOUNDARY<br>ELEMENTS OF SPECIAL STRUCTURAL WALLS OF<br>CONCRETE AND SHEAR REINFORCEMENT |                    |                   | WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND | 0001104.0.1   |                 |                    |
| 3) SHEAR REINFORCEMENT  |                    |                   | APPROVED IN ACCORDANCE  |   |                 |                    |
| 4) OTHER REINFORCING STEEL  |                    |                   | WITH CBC<br>SECTION 1704.2  |   |                 |                    |
| 6. INSPECTION OF STEEL FRAME JOINT DETAILS F  | UN COMPLIANC       | I<br>JE (WITH APF |   | ION DOCUMENTS   | )               |                    |
| A. DETAILS SUCH AS BRACING AND STIFFENING   |                    | ×                 |   | CBC 1704.3.2  |                 |                    |
| B. MEMBER LOCATIONS   |                    | ×                 |   | ]   |                 |                    |
| C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION  |                    | ×                 |   |   |                 |                    |
| 7. SPRAYED FIRE-RESISTANT MATERIALS   |                    | ×                 |   | CBC 1704.12   |                 |                    |
| 8. MASTIC AND INTUMESCENT FIRE-RESISTANT  |                    | ×                 |   | CBC 1704.13   |                 |                    |

#### REQUIRED VERIFICATION AND INSPECTION FOR NON-STRUCTURAL COMPONENTS PERFORMED BY NOTES VERIFICATION AND INSPECTION CONTINUOUS PERIODIC 2. INSPECTION OF CONNECTION RACKS AND DETAILS FOR COMPLIANCE WITH INSPECTION NOT |17*0*5.11.7 REQUIRED FOR MANUFACTURER'S REQUIREMENTS FLOORS DURING ANCHORAGE STORAGE RACKS <=8 FT. HIGH ANCHORED 3. INSPECTION PROGRAM SHALL VERIFY VENEER VERIFICATION AT CBC 1705.11.5, A. SIZE, TYPE OF VENEER ANCHORS BEGINNING OF ACI 530/ ASCE 5/ TMS CONSTRUCTION 402 SEC. B. SIZE, GRADE OF JOINT REINF. 1.22(e), C. PROPORTIONS OF MORTAR 2.1.4.3.1.6 D. CONSTRUCTION OF MORTAR E. INSTALLATION OF TIES 4. ERECTION AND FASTENING CBC 1705.11.5 NOT REQUIRED FOR STRUCTURES <= 30 FT AND FOR CLADDING <= EMERGENCY 5. ANCHORAGE OF EQUIPMENT TO CBC 1705.11.6(1) OR STANDBY STRUCTURE SYSTEMS CBC 1705.11.6(3) EQUIPMENT TO STRUCTURE SYSTEMS INTENDED TO CARRY FLAMMABLE, COMBUSTIBLE, OR HIGHLY CONTENTS ASSOCIATED MECHANICAL EQUIPMENT ANCHORAGE AND BRACING OF | CBC 1705.11.6(4) | DUCTWORK DUCTWORK TO STRUCTURE CONTAINING HAZARDOUS MATERIALS VIBRATION 8. INSTALLATION OF SYSTEMS

| CBC 1705.11.6(5) |

#### REQUIRED VERIFICATION AND INSPECTION OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION REFERENCES PERFORMED BY NOTES VERIFICATION AND INSPECTION CONTINUOUS PERIODIC COMMENTS . WELDING, SCREW ATTACHMENT, BOLTING, CBC 1705.10.2, INSPECTION NOT 1705.11.3 ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE LATERAL FORCE REQUIRED IF RESISTING SYSTEM, INCLUDING SHEAR WALLS, EITHER OF THE BRACES, DIAPHRAGMS, COLLECTORS (DRAG FOLLOWING STRUTS) AND HOLD-DOWNS I) THE SHEATHING IS GYPSUM BOARD OR FIBERBOARD 2) THE SHEATHING IS MOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 IN. ON CENTER. CBC 1705.11.5 2. ERECTION AND FASTENING OF EXTERIOR SEE CBC FOR CLADDING, INTERIOR AND EXTERIOR NONBEARING EXCEPTIONS WALLS AND INTERIOR AND EXTERIOR VENEER 3. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER A. VERIFY THAT THE TEMPORARY CBC 1705.2.2.2 INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS

## SPECIAL INSPECTION

- IN ACCORDANCE WITH CBC SECTION IIO, SECTION I704, AND SECTION I705, OWNER SHALL EMPLOY AN INDEPENDENT AGENCY TO PERFORM REQUIRED TESTS AND SPECIAL INSPECTIONS DURING CONSTRUCTION PER THE REQUIREMETHS OF CBC CHAPTER 17, THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION, AND THE CONTRACT DOCUMENTS.
- 2. TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM FOLLOWING THE CONTINUOUS OR PERIODIC REQUIREMENTS SPECIFIED.
- REPORTS SHALL INDICATE WETHER THE WORK INSPECTED WAS DONE IN CONFORMANCE OR NONCONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. NONCOMFORMITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE NONCONFORMITIES SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNING CODE AUTHORITY AND THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF NONCONFORMITIES SHALL BE SUBMITTED UPON COMPLETION OF
- 4. TESTING AND SPECIAL INSPECTION REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER.
- 5. TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED ON THE ITEMS AS INDICATED IN THE TABLES FOLLOWING. ALSO, FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS SEE THE PROJECT SPECIFICATIONS AND FORM DSA-103 STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS.

1 2 8 9

REQUIRING <= 1/4 IN. CLEARANCE BETWEEN EQUIPMENT SUPPORT

FRAME AND RESTRAINT

|  | CONSULTANTS: | ARCHITECT/ENGINEERS:   | Drawing Title  STRUCTURAL NOTES | Project Title RENOVATE 7TH FLOOR BUILDING 1 | Project Number  570-I3-202 | Office o    |
|--|--------------|--|---------------------------------|---|----------------------------|-------------|
| CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW) | 4-30-14      | PROFESSION P. ALLA C   | STRUCTURAL NOTES                |   | Building Number            | Const       |
| CONSTRUCTION DOCUMENT SUBMITTAL (100%)           | 4-16-14      |  | Approved: Project Director      | Location                                    | Drawing Number             | Manag       |
| CONSTRUCTION DOCUMENT SUBMITTAL (65%)            | 3-19-14      | TETER, LLP   | <b>▶</b> //                     | FRESNO, CA                                  | 0004                       | Warrag      |
| DESIGN DEVELOPMENT SUBMITTAL (35%)               | 2-14-14      | 7535 N. PALM AVE. 201   FRESNO, CA 93711   559.437.0887 125 S. BRIDGE ST. 150   VISALIA, CA 93291   559.625.5246  ARCHITECTS ENGINEERS CONNECTED |                                 | Date   Checked   Drawn                      | <b>S001</b>                | Donot Donot |
| SCHEMATIC DESIGN SUBMITTAL                       | 12-4-13      | ARCHITECTS ENGINEERS CONNECTED   |                                 | 4-30-14                                     | Dwg. 14 of 51              | Vete        |

SUBMITTAL PACKAGE

